

39. The method of claim 38, wherein said bone marrow stromal cell is mammalian.
40. The method of claim 38, wherein said bone marrow stromal cell is human.
41. The method of claim 38, wherein said bone marrow cell is obtained from a dog, cat, rabbit, or horse.
42. The method of claim 38, wherein said bone marrow stromal cell was previously frozen.
- Sub C1* 43. A method of inducing differentiation of a bone marrow stromal cell, comprising contacting said cell with a bone morphogenic protein (BMP) selected from the group consisting of BMP-2, BMP-4, and BMP-6.
44. The method of claim 43, wherein said bone marrow stromal cell is mammalian.
45. The method of claim 43, wherein said bone marrow stromal cell is human.
46. The method of claim 43, wherein said bone marrow cell is obtained from a dog, cat, rabbit, or horse.
47. The method of claim 43, wherein said bone marrow stromal cell was previously frozen.
48. The method of claim 43, wherein said BMP is BMP-2.
49. The method of claim 43, wherein said BMP is BMP-4.
50. A method of inducing differentiation of a bone marrow stromal cell, comprising culturing said cell in the presence of a transfected cell, wherein said transfected cell expresses a BMP selected from the group consisting of BMP-2, BMP-4, and BMP-6.
51. The method of claim 50, wherein said bone marrow stromal cell is mammalian.
52. The method of claim 50, wherein said bone marrow stromal cell is human.

APPLICANTS: Keeping

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53. The method of claim 50, wherein said bone marrow cell is obtained from a dog, cat, rabbit, or horse.
 54. The method of claim 50, wherein said bone marrow stromal cell was previously frozen.
 55. The method of claim 50, wherein said BMP is BMP-2.
 56. The method of claim 50, wherein said BMP is BMP-4.
 57. The method of claim 50, wherein said BMP is BMP-6.
 58. The method of claim 50, wherein said transfected cell is murine.
 59. The method of claim 50, wherein said transfected cell is a C3H10T1/2 cell.
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